

Model Numbers	40902 (Big Twin, standard length) 40903 (Big Twin, 5" longer) 40952 (Big Twin Electric, standard length) 40953 (Big Twin Electric, 5" longer) 40972 (Lark; standard length) 40973 (Lark; 5" longer)	Propeller gear ratio	12.21	
*Horsepower (O.B.C. - certified)	40 hp at 4500 rpm	Propeller drive pin	Part No. 304575, 1/4" x 1-15/32" stainless steel	
Full throttle operating range	4000 to 5000 rpm	Propeller	10-1/2" diameter x 12" pitch, 3-blade	
Tank test with test wheel	4300 rpm	Alternate propellers	10-3/8" x 11-1/2" pitch 10-3/8" x 13-1/4" pitch 10-3/8" x 14" pitch	
Engine type	2 cylinder, 2 cycle, alternate firing	Speed control	Big Twin - Rope Only Knob on steering bracket or remote control Big Twin Electric and Lark - Remote control Synchronized throttle and spark	
Bore and stroke	3-3/16" bore x 2-3/4" stroke	Gear shift control	Forward, neutral, reverse - Lark - Selectric push-button remote control	
Piston displacement	43.9 cubic inches	Weight (without fuel tank)	Model 40902 - 132 lbs. Model 40903 - 138 lbs. Model 40952 - 143 lbs. Model 40953 - 149 lbs. Model 40972 - 154 lbs. Model 40973 - 159 lbs. (Fuel tank weight 11 lbs. net)	
Piston ring sets (3 per set)		Fuel capacity	6 gallons, suction type tank	
standard	Part Number 380108	Starter	Big Twin - Simplex self-rewinding Big Twin Electric and Lark - Electric	
.025" oversize	Part Number 380109	Starter amp draw when cranking	120 amperes maximum	
Diameter of ring	3.1875 in. (standard)	Ignition	Flywheel magneto	
Width of ring	.0935 - .0925 in.	Spark plug	AC-M42K, Champion J4J, Auto-Lite A21X - 14mm	
Lbs. Compression recommended when compressed	7 to 10.4 lbs.	Spark plug gap	.030 inch	
Piston less rings		Spark plug torque	17-1/2 - 20-1/2 foot-pounds	
standard	Part Number 383068	Breaker point gap	.020 inch	
.025" oversize	Part Number 383069	Condenser Capacity	Part No. 580422 .25 - .29 mfd.	
Crankshaft size		Part No. 580416 Coil Test Specifications Old Stevens Tester		
top journal	1.2500 - 1.2495 in.	Switch	Index Reading	
center journal	1.000 - .9995 in.	A	2.0 - 2.5	
bottom journal	1.000 - 9.995 in.	New Stevens Tester Model No. M.A. - 75		
Connecting rod crank pin	1.1828 - 1.1823 in.	Switch	Index Adjustment	
Carburetion	Float feed with low-speed adjustment. Spring-loaded choke (Big Twin) or automatic choke and manual lever (Big Twin Electric and Lark)	A	24	
Float level setting	Remove float bowl, turn it upside down so weight of float closes needle; float should now be even with rim of casting.	Merc-O-Tronic		
Carburetor orifice plug	Hole size .064"	Operating Amperage	Primary Resistance	
Inlet needle seat	.065 - .062 Use a #52 drill as gage.	Min.	Max.	
Cooling system	Thermostatically controlled recirculating system	1.6	.45 .55 30 45	
		Secondary Continuity		
		Min. Max.		
		30 45		
		Graham Tester Model 51		
		Maximum Secondary	Maximum Primary	Coil Index
		4000	1.2	75
				Minimum Coil Test
				33
				Gap Index
				75

\*Horsepower established at sea level. Allow 2% reduction per 1000' above sea level.